GOVERNMENT OF INDIA
POWER
LOK SABHA

STARRED QUESTION NO:332
ANSWERED ON:17.04.2000
TRANSMISSION AND DISTRIBUTION LOSSES
SHANKERSINH VAGHELA;SUKDEO PASWAN

Will the Minister of POWER be pleased to state:

(a) whether any assessment of losses being suffered in transmission and distribution of power has been made in the country;

(b) if so, the details thereof, State-wise; and

(c) the steps taken to curtail the loss of power?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTI MEHTA)

(a) to (c) : A Statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF STARRED QUESTION NO.332 TO BE ANSWERED IN THE LOK SABHA ON 17.4.2000 REGARDING TRANSMISSION AND DISTRIBUTION LOSSES.

(a) : On the basis of the figures reported by the State Electricity Boards/Electricity Departments, the All India Transmission and Distribution loss during 1997-98 was 24 per cent.

(b) : The State-wise details are given in the enclosed Annexure.

(c) : Transmission and Distribution losses occur on account of energy dissipation in the conductors and the equipment used for transformation, transmission and distribution of power. The technical losses have to be reduced to optimum levels by better design of lines, relocation of distribution transformers, installation of capacitors and use of higher efficiency transformers. Besides technical losses, the commercial and unaccounted losses caused by theft of energy, defective meters, meter reading errors and un-metered supply have to be reduced by energy audit at all levels and hundred per cent metering of all consumers.

The Central Electricity Authority has issued comprehensive guidelines for reduction of Transmission and Distribution losses to the State Electricity Boards/ Electricity Departments. The following measures have been suggested :-

- Upgradation of operating voltages.
- Reduction of length of LT lines.
- Location of transformers near load centres.
- Adoption of low capacity transformers near consumer premises.
- Installation of shunt capacitors; and
- Improvement in construction and operation techniques.

In the Power Ministers Conference held on 26.2.2000, it has been resolved to undertake the following measures in order to achieve a reduction in the transmission and distribution losses:

- Energy audit at all levels.
- Time-bound programme of 100% metering of all consumers by December, 2001.
- Reduction and finally, elimination of power theft within a specified time frame.
- Strengthening/upgradation of sub-transmission and distribution system by taking sub-station as an unit on a priority basis.

The Rural Electrification Corporation is providing financial assistance to the State Electricity Boards for undertaking system improvement projects in rural areas. The Power Finance Corporation is also providing funds to the State Electricity Boards for System Improvement Projects in urban areas and for installation of capacitors and meters.

Additional funding assistance through a combination of grant and loan for strengthening and upgradation of the Sub-transmission and distribution network by undertaking specific projects will also be available from the current financial year under the Accelerated Power Development Programme (APDP). The modalities for implementing the APDP Scheme are being finalised by the Planning Commission in consultation with the Ministry of Power.

ANNEXURE REFERRED TO IN PART (b) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION No. 332 TO BE ANSWERED IN THE LOK SABHA ON 17.4.2000 REGARDING TRANSMISSION & DISTRIBUTION LOSSES.

PERCENTAGE TRANSFORMATION, TRANSMISSION AND DISTRIBUTION LOSSES (INCLUDING COMMERCIAL LOSSES SUCH AS PILFERAGE ETC.) IN SEBs/ EDs DURING THE YEAR 1997-98+

REGIONS.	S.NO.	SEBS/ EDS	1997-98	
NORTHERN REGION	1	HARYANA	33.04	#
	2.	HIMACHAL PRADESH	19.20	
	3.	JAMMU & KASHMIR	47.48	$
	4.	PUNJAB	17.90	
	5.	RAJASTHAN	26.46	
	6.	UTTAR PRADESH	25.00	
	7.	CHANDIGARH	14.95	
	8.	DVB (DELHI)	46.86	#
WESTERN REGION	1.	GUJARAT	19.66	
	2.	MADHYA PRADESH	19.08	
	3.	MAHARASHTRA	17.73	
	4.	D&N HAVELI	NA	
	5.	GOA	23.39	
	6.	DAMAN & DIU	11.27	
SOUTHERN REGION	1.	ANDHRA PRADESH	31.76	
	2.	KARNATAKA	18.56	
	3.	KERALA	17.87	
	4.	TAMIL NADU	17.00	
	5.	LAKSHDWEEP	15.83	
	6.	PONDICHERRY	13.79	
EASTERN REGION	1.	BIHAR	25.41	
	2.	ORISSA (GRIDCO)	NA	
	3.	SIKKIM	20.13	
	4.	WEST BENGAL	20.34	
	5.	A&N ISLAND	20.51	
NORTH EASTERN REGION	1.	ASSAM	30.05	
	2.	MANIPUR	21.50	$
	3.	MEGHALAYA	17.93	
	4.	NAGALAND	29.50	$
	5.	TRIPURA	29.75	
	6.	ARUNACHAL PRADESH	30.99	$
	7.	MIZORAM	47.00	$
ALL INDIA UTILITIES			24.44	

\+ - DATA IS TENTATIVE AS REPORTED BY SEBS/ EDS.
\# - COMPUTED FIGURES
$ - AS REPORTED IN THE ANNUAL PLAN RESOURCES PAPER SUBMITTED TO PLANNING COMMISSION.
NA - INFORMATION NOTE YET FURNISHED BY SEBS/ED.